

This Page Is Inserted by IFW Operations
and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

**As rescanning documents *will not* correct images,
please do not report the images to the
Image Problem Mailbox.**

10714799_CLSTITLES

Titles of Most Frequently Occurring Classifications of Patents Returned

From A Search of 10714799 on July 22, 2004

- 7 119/215 (2 OR, 5 XR)
 - Class 119 : ANIMAL HUSBANDRY
 - 119/200 AQUATIC ANIMAL CULTURING
 - 119/215 .Fish culturing
- 4 119/211 (1 OR, 3 XR)
 - Class 119 : ANIMAL HUSBANDRY
 - 119/200 AQUATIC ANIMAL CULTURING
 - 119/204 .Crustacean culturing
 - 119/207 ..Habitat
 - 119/211 ...Habitat with recirculation and filter means
- 4 119/223 (3 OR, 1 XR)
 - Class 119 : ANIMAL HUSBANDRY
 - 119/200 AQUATIC ANIMAL CULTURING
 - 119/215 .Fish culturing
 - 119/223 ..Floating fish rearing assembly
- 4 119/232 (2 OR, 2 XR)
 - Class 119 : ANIMAL HUSBANDRY
 - 119/200 AQUATIC ANIMAL CULTURING
 - 119/215 .Fish culturing
 - 119/232 ..Cleaning-sweeper or mechanical agitator
- 3 119/204 (3 OR, 0 XR)
 - Class 119 : ANIMAL HUSBANDRY
 - 119/200 AQUATIC ANIMAL CULTURING
 - 119/204 .Crustacean culturing
- 3 119/212 (3 OR, 0 XR)
 - Class 119 : ANIMAL HUSBANDRY
 - 119/200 AQUATIC ANIMAL CULTURING
 - 119/204 .Crustacean culturing
 - 119/212 ..Feeding method
- 3 119/226 (2 OR, 1 XR)
 - Class 119 : ANIMAL HUSBANDRY
 - 119/200 AQUATIC ANIMAL CULTURING
 - 119/215 .Fish culturing
 - 119/226 ..Fish enclosure - recirculating type
- 3 210/150 (0 OR, 3 XR)

10714799_CLSTITLES

- Class 210 : LIQUID PURIFICATION OR SEPARATION
210/150 WITH GAS-LIQUID SURFACE CONTACT MEANS
- 3 210/151 (2 OR, 1 XR)
Class 210 : LIQUID PURIFICATION OR SEPARATION
210/150 WITH GAS-LIQUID SURFACE CONTACT MEANS
210/151 .With separator
- 3 210/169 (0 OR, 3 XR)
Class 210 : LIQUID PURIFICATION OR SEPARATION
210/153 STRUCTURAL INSTALLATION
210/167 .Closed circulating systems
210/169 ..Aquarium or swimming pool
- 3 261/92 (0 OR, 3 XR)
Class 261 : GAS AND LIQUID CONTACT APPARATUS
261/75 CONTACT DEVICES
261/83 .Rotating
261/84 ..Impeller
261/91 ...Dipping
261/92Horizontal axis
- 2 119/200 (1 OR, 1 XR)
Class 119 : ANIMAL HUSBANDRY
119/200 AQUATIC ANIMAL CULTURING
- 2 119/224 (2 OR, 0 XR)
Class 119 : ANIMAL HUSBANDRY
119/200 AQUATIC ANIMAL CULTURING
119/215 .Fish culturing
119/224 ..Tank array
- 2 119/225 (1 OR, 1 XR)
Class 119 : ANIMAL HUSBANDRY
119/200 AQUATIC ANIMAL CULTURING
119/215 .Fish culturing
119/224 ..Tank array
119/225 ...Sequential or stepwise tank array
- 2 119/227 (0 OR, 2 XR)
Class 119 : ANIMAL HUSBANDRY
119/200 AQUATIC ANIMAL CULTURING
119/215 .Fish culturing
119/226 ..Fish enclosure - recirculating type
119/227 ...With biological filter
- 2 119/228 (2 OR, 0 XR)
Class 119 : ANIMAL HUSBANDRY

10714799 CLSTITLES

119/200 AQUATIC ANIMAL CULTURING
 119/215 .Fish culturing
 119/228 ..Fish enclosure - nonrecirculating type

2 119/230 (0 OR, 2 XR)
 Class 119 : ANIMAL HUSBANDRY
 119/200 AQUATIC ANIMAL CULTURING
 119/215 .Fish culturing
 119/230 ..Feeding method

2 119/245 (0 OR, 2 XR)
 Class 119 : ANIMAL HUSBANDRY
 119/200 AQUATIC ANIMAL CULTURING
 119/245 .Aquarium

2 119/259 (1 OR, 1 XR)
 Class 119 : ANIMAL HUSBANDRY
 119/200 AQUATIC ANIMAL CULTURING
 119/245 .Aquarium
 119/259 ..Filter

2 119/261 (0 OR, 2 XR)
 Class 119 : ANIMAL HUSBANDRY
 119/200 AQUATIC ANIMAL CULTURING
 119/245 .Aquarium
 119/259 ..Filter
 119/261 ...With aerator

2 119/263 (0 OR, 2 XR)
 Class 119 : ANIMAL HUSBANDRY
 119/200 AQUATIC ANIMAL CULTURING
 119/245 .Aquarium
 119/263 ..Aerator

2 210/170 (0 OR, 2 XR)
 Class 210 : LIQUID PURIFICATION OR SEPARATION
 210/153 STRUCTURAL INSTALLATION
 210/170 .Geographic (e.g., drainage ditch, septic, pond)

2 210/188 (0 OR, 2 XR)
 Class 210 : LIQUID PURIFICATION OR SEPARATION
 210/188 WITH GAS SEPARATOR

2 210/195.1 (0 OR, 2 XR)
 Class 210 : LIQUID PURIFICATION OR SEPARATION
 210/194 RECIRCULATION
 210/195.1 .Serially connected distinct treating or

10714799_CLSTITLES
storage units

- 2 210/202 (0 OR, 2 XR)
Class 210 : LIQUID PURIFICATION OR SEPARATION
210/198.1 WITH MEANS TO ADD TREATING MATERIAL
210/200 .Plural distinct separators
210/201 ..Serially connected
210/202 ...Diverse type
- 2 210/219 (0 OR, 2 XR)
Class 210 : LIQUID PURIFICATION OR SEPARATION
210/198.1 WITH MEANS TO ADD TREATING MATERIAL
210/209 .Directly applied to separator
210/219 ..With mechanical agitator
- 2 210/602 (2 OR, 0 XR)
Class 210 : LIQUID PURIFICATION OR SEPARATION
210/600 PROCESSES
210/601 .Treatment by living organism
210/602 ..Including plant or animal of higher order
- 2 210/617 (0 OR, 2 XR)
Class 210 : LIQUID PURIFICATION OR SEPARATION
210/600 PROCESSES
210/601 .Treatment by living organism
210/615 ..Utilizing contact surfaces supporting
microorganism (e.g., trickling filter, et
c.)
210/616 ...Particulate media
210/617In bed form
- 2 210/629 (0 OR, 2 XR)
Class 210 : LIQUID PURIFICATION OR SEPARATION
210/600 PROCESSES
210/601 .Treatment by living organism
210/620 ..Aerobic treatment
210/629 ...And internally circulating the liquid
- 2 210/903 (0 OR, 2 XR)
Class 210 : LIQUID PURIFICATION OR SEPARATION
210/902 MATERIALS REMOVED
210/903 .Nitrogenous
- 2 210/926 (0 OR, 2 XR)
Class 210 : LIQUID PURIFICATION OR SEPARATION
210/918 MISCELLANEOUS SPECIFIC TECHNIQUES
210/926 .Using oxidation ditch (e.g., carousel, etc.)

10714799_CLSTITLES

2 424/529 (0 OR, 2 XR)
 Class 424 : DRUG, BIO-AFFECTING AND BODY TREATING
 COMPOSITIONS
 424/520 EXTRACT, BODY FLUID, OR CELLULAR MATERIAL OF
 UNDETERMINED CONSTITUTION DERIVED FROM ANI
 MAL IS ACTIVE
 INGREDIENT
 424/529 .Blood

2 424/531 (0 OR, 2 XR)
 Class 424 : DRUG, BIO-AFFECTING AND BODY TREATING
 COMPOSITIONS
 424/520 EXTRACT, BODY FLUID, OR CELLULAR MATERIAL OF
 UNDETERMINED CONSTITUTION DERIVED FROM AN
 IMAL IS ACTIVE
 INGREDIENT
 424/529 .Blood
 424/531 ..Serum

2 435/392 (2 OR, 0 XR)
 Class 435 : CHEMISTRY: MOLECULAR BIOLOGY AND MICROBIOLOGY
 435/325 ANIMAL CELL, PER SE (E.G., CELL LINES, ETC.);
 COMPOSITION THEREOF; PROCESS OF PROPAGAT
 ING, MAINTAINING OR
 PRESERVING AN ANIMAL CELL OR COMPOSITION
 THEREOF; PROCESS
 OF ISOLATING OR SEPARATING AN ANIMAL CEL
 L OR COMPOSITION
 THEREOF; PROCESS OF PREPARING A COMPOSIT
 ION CONTAINING AN
 ANIMAL CELL; CULTURE MEDIA THEREFORE
 435/383 .Method of culturing cells in suspension
 435/391 ..Culture medium contains an animal extract
 435/392 ...Serum

10714799_CLS
Most Frequently Occurring Classifications of Patents Returned
From A Search of 10714799 on July 22, 2004

Original Classifications

3	119/204
3	119/212
3	119/223
2	119/215
2	119/224
2	119/226
2	119/228
2	119/232
2	210/151
2	210/602
2	435/392

Cross-Reference Classifications

5	119/215
3	119/211
3	210/150
3	210/169
3	261/92
2	119/227
2	119/230
2	119/232
2	119/245
2	119/261
2	119/263
2	210/170
2	210/188
2	210/195.1
2	210/202
2	210/219
2	210/617
2	210/629
2	210/903
2	210/926
2	424/529
2	424/531

Combined Classifications

7	119/215
4	119/211
4	119/223
4	119/232
3	119/204
3	119/212

10714799_CLS

3 119/226
3 210/150
3 210/151
3 210/169
3 261/92
2 119/200
2 119/224
2 119/225
2 119/227
2 119/228
2 119/230
2 119/245
2 119/259
2 119/261
2 119/263
2 210/170
2 210/188
2 210/195.1
2 210/202
2 210/219
2 210/602
2 210/617
2 210/629
2 210/903
2 210/926
2 424/529
2 424/531
2 435/392

99

PLUS Search Results for S/N 10714799, Searched July 22, 2004

The Patent Linguistics Utility System (PLUS) is a USPTO automated search system for U.S. Patents from 1971 to the present. PLUS is a query-by-example search system which produces a list of patents that are most closely related linguistically to the application searched. This search was prepared by the staff of the Scientific and Technical Information Center, SIRA.

6447681
6117313
4399769
4044720
4394846
6386145
4428757
6443097
4915059
4961400
4926795
6192833
5715773
4913093
4972802
5466373
5778823
5816196
3916832
RE30038
5176100
5206243
5227055
5426045
5443984
5732654
5947057
6119630
6299928
6518252
6584935
6722314
5348654
5249548
4903636

10714799_LIST

RE34545
6432312
4516528
3899167
4267798
4369735
4381617
4409107
5189981
5329719
5450818
4960565
4825810
5356105
5543034

10714799_QUAL

6447681 58
6117313 45
4399769 41
4044720 41
4394846 41
6386145 41
4428757 40
6443097 40
4915059 37
4961400 37
4926795 37
6192833 37
5715773 36
4913093 36
4972802 36
5466373 36
5778823 36
5816196 36
3916832 36
RE30038 36
5176100 36
5206243 36
5227055 36
5426045 36
5443984 36
5732654 36
5947057 36
6119630 36
6299928 36
6518252 36
6584935 36
6722314 36
5348654 36
5249548 36
4903636 35
RE34545 35
6432312 35
4516528 32
3899167 32
4267798 32
4369735 32
4381617 32
4409107 32
5189981 32
5329719 32
5450818 32
4960565 32
4825810 32

10714799_QUAL

5356105 32
5543034 32

Type	Hits	Search Text	DBs	Time Stamp
1 BRS	61	119/\$.ccls. and 'raceway'	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/21 17:00
2 BRS	0	((119/\$.ccls. and 'raceway') and 'fish') and 'dead fish'	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/21 15:00
3 BRS	42	119/\$.ccls. and 'dead fish'	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/21 17:04
4 BRS	0	119/\$.ccls. and 'hydrocone'	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/21 15:18
5 BRS	45	(119/\$.ccls. and 'raceway') and 'fish'	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/21 15:29
6 IS&R	2	((("6447681") or ("d465257"))).PN.	USPAT	2004/07/21 15:30
7 IS&R	7	((("6382134") or ("6192833") or ("5561831") or ("4915059") or ("4913093") or ("4516528") or ("4300477"))).PN.	USPAT	2004/07/21 15:35
8 IS&R	1	("5961831").PN.	USPAT	2004/07/21 15:35
9 IS&R	402	((119/216) or (119/251) or (119/200) or (119/206) or (119/219) or (119/225) or (119/226) or (119/227)).CCLS.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/21 17:00
10 BRS	13	((119/216) or (119/251) or (119/200) or (119/206) or (119/219) or (119/225) or (119/226) or (119/227)).CCLS.) and 'raceway'	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/21 17:01
11 BRS	27	((119/216) or (119/251) or (119/200) or (119/206) or (119/219) or (119/225) or (119/226) or (119/227)).CCLS.) and 'dead'	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/21 17:01
12 BRS	22	((119/216) or (119/251) or (119/200) or (119/206) or (119/219) or (119/225) or (119/226) or (119/227)).CCLS.) and 'dead') not (119/\$.ccls. and 'dead fish')	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/21 17:01
13 BRS	14	119/\$.ccls. and ('closed circuit' and 'fish')	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/21 17:04

	Type	Hits	Search Text	DBs	Time Stamp
14	BRS	17	'03729'	USPAT; US-PGPUB; EPO; DERWENT	2004/07/22 12:12
15	IS&R	1	("6447681").PN.	USPAT	2004/07/22 13:20
16	BRS	0	(119/\$.cccls. and 'water propulsion') and 'U tube'	USPAT	2004/07/22 13:20
17	BRS	9	119/\$.cccls. and 'U tube'	USPAT	2004/07/22 13:21
18	BRS	1	119/\$.cccls. and 'water propulsion'	USPAT	2004/07/22 13:21
19	BRS	5	(119/\$.cccls. and 'U tube') and 'pump'	USPAT	2004/07/22 13:34
20	BRS	0	119/\$.cccls. and ('spoilers' and 'baffles')	USPAT	2004/07/22 13:34
21	BRS	0	119/\$.cccls. and ('spoiler' and 'baffle')	USPAT	2004/07/22 13:34
22	BRS	2	119/\$.cccls. and ('spoilers')	USPAT	2004/07/22 13:38
23	BRS	1	119/\$.cccls. and ('baffles' and 'water jets')	USPAT	2004/07/22 13:39
24	BRS	209	119/\$.cccls. and ('baffles')	USPAT	2004/07/22 13:51
25	BRS	138	(119/\$.cccls. and ('baffles')) and 'water'	USPAT	2004/07/22 13:40
26	BRS	52	((119/\$.cccls. and ('baffles')) and 'water') and 'fish'	USPAT	2004/07/22 13:40
27	BRS	4	119/\$.cccls. and 'paddlewheels'	USPAT	2004/07/22 13:58
28	IS&R	1	("5320068").PN.	USPAT	2004/07/22 14:12
29	IS&R	1	("4593647").PN.	USPAT	2004/07/22 14:13
30	BRS	0	'raceway' and 'waste treatment zone'	USPAT	2004/07/22 14:14
31	BRS	13	'raceway' and 'waste treatment'	USPAT	2004/07/22 14:14